

**Proceedings of section G, A. A. A. S., Brooklyn meeting,  
1894.**

THURSDAY, AUGUST 16TH.

Section G met at 11:15 A. M., and organized by electing as councilor, Byron D. Halsted; as members of sectional committee, in addition to the ex officio members, Geo. F. Atkinson, W. J. Beal, B. T. Galloway; as member of nominating committee, A. B. Seymour; as committee to nominate officers of section, the officers and John M. Coulter, M. B. Waite, and J. J. Davis.

At the suggestion of the council a new officer, to prepare for the press readable reports of papers presented, was appointed. Byron D. Halsted was elected "press secretary."

At 4:30 P. M., vice-president Underwood's address (printed in full elsewhere) was read by Dr. S. E. Jeliffe.

MONDAY, AUGUST 20TH.

Reports from the standing committees appointed by the Madison Botanical Congress were called for.

The Committee on Bibliography and Typography presented the following report:

To section G, A. A. A. S.:

The Committee on Bibliography and Typography appointed by the Madison Botanical Congress was directed to report to section G of the American Association for the Advancement of Science. This section therefore is asked to receive the following report and take such action thereupon as seems wise:

The committee report that progress has been made during the past year in carrying out the suggestions made to the Madison Botanical Congress.<sup>1</sup> The first recommendation thereto made, viz., "that there should be published . . . a catalogue of papers [relating to American botany] by authors," has been undertaken and so far as it has gone has been successfully accomplished by the cooperation of a number of botanists with the editors of the *Bulletin* of the Torrey Botanical Club and the Cambridge Botanical Supply Co. This index, printed first in the *Bulletin*, is reprinted upon standard cards by the Cambridge Botanical Supply Co., so

<sup>1</sup>Proc. Madison Bot. Congress 45. Je 1894.

that any number of copies can be had and arranged by subjects or by journals as desired. Every effort will be made by those charged with the preparation of this index and its first publication to make it complete, and to have it conform exactly to the rules for citation prepared by this committee. The work of publication upon cards, however, is not adequately supported. The committee sincerely hope that this form of publication will not have to be given up, and they therefore urge that those interested testify their interest by sending their subscriptions to the Cambridge Botanical Supply Co., Cambridge, Mass.

The committee also announce that the BOTANICAL GAZETTE, in connection with the Cambridge Botanical Supply Co., is ready to undertake the publication of the supplementary list of journals referred to in section i. b. of the committee's report<sup>2</sup> to the Congress which appointed it. The publication of these lists of journals upon cards will be begun as soon as subscribers sufficient to defray the expense of printing the cards can be secured. In the same way the *Bulletin* of the Torrey Botanical Club will undertake the publication of the list of authors referred to in the committee's report under i. c. If the number of subscribers to the index of papers above mentioned as in course of publication can be immediately increased, these author and journal cards will, for the present year, be sent free to subscribers.

The committee again call attention to the index of new genera and species of plants now being issued on cards by Miss Josephine A. Clark, of Washington, D. C., and commend this to the support of botanists. Regarding this private publication they beg to suggest (1) that there be added to these cards such marks as will serve to identify the series when distributed in other indexes; (2) that in the interest of completeness *all* new names relating to North American plants be included.

A year's experience in the working of the rules for citation approved by the Madison Congress has not shown the necessity or desirability of any changes. To those rules, however, the committee desire to add the following amplification:

In *f*, p. 46, l. c., before the last sentence insert: In case the original paging is unknown an em dash should occupy

<sup>2</sup>Loc. cit.

its place, the reprint paging being given in accordance with the foregoing rule.

The committee also recommend the adoption of the two following paragraphs as addenda:

*j.* If it is considered desirable to give other data than series number (if any), volume number, page and date, these should be added in brackets after the date. But useless or unnecessary data should be avoided.

*k.* Citations of reviews, abstracts, and all such secondary references should be enclosed in parentheses.

Since uniformity is the chief object in the adoption of the rules for citation by the Congress, the committee call attention to the necessity of an exact following of these rules by as many writers and publishers as can be induced to give adhesion to them. To facilitate this we recommend that the editors of the *Bulletin* of the Torrey Botanical Club, the *Botanical Gazette*, *Erythea*, and the *American Naturalist* be requested to publish these rules, and examples of as great a variety of citations as practicable. The committee also desire to issue these on tag-board sheets, in a form which can be readily distributed and preserved for convenient reference. To enable the committee to do this, and to disseminate information upon these points, we recommend that the Council of the A. A. A. S. be requested to make a grant of \$25 to cover the necessary expenses which may be incurred.

C. R. BARNES,  
A. B. SEYMOUR,  
L. L. BRITTON,  
*for the Committee.*

The report was accepted and adopted, and the committee continued.

The grant asked for was voted by the Council of the A. A. A. S. at its meeting on Tuesday morning. The committee will therefore have printed shortly the rules for citations, with examples, in large type upon tag-board, and mail copies to all desiring them. Application should be made to the Cambridge Botanical Supply Co., Cambridge, Mass.

The Committee on the Terminology of Physiology was called. In the absence of the chairman, Dr. J. C. Arthur, Dr. Barnes reported that so far as he was aware, the committee had done nothing. The committee was continued with instructions by the Section to prosecute its work.

The Committee on the Terminology of Anatomy and Morphology was called. No report was ready. In the absence of the chairman, Prof. Conway MacMillan, it was suggested that the committee be continued with instructions to present a report next year, since suggestions by this committee are desired to secure as great uniformity as possible in the terminology of the new Systematic Botany of North America.

The Committee on Geographical Botany reported that its work was in progress and that a full report would be rendered next year. The committee recommended that two additional members, Dr. N. L. Britton, selected by the committee, and one to be named by the vice-president of the Section, be appointed. The report was accepted and adopted, and the committee continued.

The Committee on the Nomenclature of Plant Diseases was called. The chairman, Dr. B. D. Halsted, announced that a report would be ready on Tuesday.

In joint session of Sections F and G the following resolutions of the Committee of the A. A. A. S. on a table at the Marine Biological Laboratory at Woods Holl, Mass., were offered by Dr. S. H. Gage for adoption by the Sections:

The Sections of Zoology and Botany (F and G) request that the Association continue its subscription of \$100 for an investigators' table at the Marine Biological Laboratory at Woods Holl, Mass.

The two sections in joint session also make the following suggestions for the award and government of the table subscribed for by the Association:

1. That the table shall be known as the A. A. A. S. table.
2. That the award of this table shall be entrusted to a committee of five, consisting of the vice-president and secretary elect of each Section (F and G), and of the director of the Marine Biological Laboratory (at present C. O. Whitman).
3. Any fellow or member of the A. A. A. S. shall be eligible for appointment to the table. (An applicant for membership in the Association will be considered as a member and therefore eligible.)
4. Applications for the table are to be made to the permanent secretary, who shall forward them to the senior vice-president of Sections F and G, seniority being determined as in §11 of the Constitution, i. e., according to continuous membership.

5. That the holders of the Association's table are expected to give proper credit for the use of the table in all published results of investigations carried on at the table.

The resolutions were adopted. At a meeting of the Council in the evening the subscription was continued for 1895 and the above regulations for its use adopted.

TUESDAY, AUGUST 21ST.

The Committee on the Nomenclature of Plant Diseases presented the following report, which was accepted and adopted, and the committee continued.

To Section G of the American Association for the Advancement of Science:

The Committee upon the Nomenclature of Plant Diseases, appointed by the Madison Botanical Congress, by vote of that body begs to make the following report:

The committee finds itself with a somewhat difficult task upon its hands. Names of fungous diseases that are now in general use it will be difficult, if not impossible, to uproot and set aside. Thus the black rot of the grape and black knot of plum and cherry are well known, distinctive and fixed. In an ideal nomenclatural system there would be distinctive common names for the various groups. This in a measure has been accomplished, for we have downy mildews for Peronosporæ, rusts for Uredinæ, and smuts for Ustilagineæ. There is a vast number of species of the large genera like *Septoria*, *Phyllosticta*, *Cercospora*, *Ramularia*, etc., that are not easily given general names. Thus a *Septoria* or *Phyllosticta* may produce a definite spot upon the leaf or affect the whole area and the term "leaf spot" is inappropriate. It is possible, for example, for blights (pear), rots (hyacinth), wilts (melon), tuberculosis (olive), and other diseases to be produced by bacteria. It is suggested that when possible the term bacteriosis be used for such cases. This can be done when a mycologist has the opportunity to set forth the disease before the world, and antedate any name or names, for there may be many, that arise among the people.

Anthracnose is a name that is used so generally that it has very little significance. It should, like many others, be restricted.

Without further argument the principal points which the committee would respectfully present for your consideration are as follows:

(1) When a good name has become firmly established no effort should now be made to change it, except when it is manifestly inappropriate, as the so-called "strawberry rust" and "celery rust."

(2) There should be terms to distinguish between the parasite and the disease it produces. It is awkward to say "this disease is *rust*, and it is produced by a *rust*." An improvement upon this would be to state that this disease is uredinosis, and is produced by a rust, giving the botanical name of the rust or even the genus when possible.

(3) The diseases need to have, for popular use, English or at least Anglicised names, and these may well be derived from those already in use.

(4) Names should be as far as possible descriptive, and indicate the plant attacked; therefore more than one word will usually be required, as "peach leaf-curl," the last two words being hyphenated. There will be many cases where the name of the host can be coupled with the genus of the parasite, thus giving a substantial compound name, as potato-macrosporium or bean-colletotrichum.

(5) After the pathology of plant diseases is understood much better than now a scientific classification of them can be made, and appropriate names given to each; at present only an artificial system can be hoped for.

A tentative classification and nomenclature may be made in various ways, as, e. g.:

(a) from the group names of the parasites as the

Uredineæ producing uredinosis

Bacteria " bacteriosis

Ustilagineæ " ustilaginosus

(b) from the gross effect upon the host as rot, scab, spot, blight, rust, smut, club-root, black-knot, mold, gall, damping off, etc., for which Latinized names might be constructed, and

(c) from the general cause of the disease; (1) unfavorable habitat, (2) unfavorable atmospheric conditions, (3) mechanical injuries. (4) parasitism, (5) teratogeny.

(6) From what has been presented above it is clear that the results obtained by the Committee are far from final and therefore it is suggested that the work be continued and that it be along the following among other lines:

- (a) Collate and tabulate the common names of plant diseases now in use.
- (b) Construct a working scheme in which every plant disease is assigned a place with a distinctive (scientific) name followed by an English name, the last to be, when possible, the one already in use.
- (c) It is recommended that the parasite should be distinguished from the disease in all cases.
- (d) It goes without saying that mycologists are urged to apply names to plant diseases instead of leaving the matter of a choice to a popular verdict.

BYRON D. HALSTED,  
B. T. GALLOWAY,  
GEO. F. ATKINSON,  
CHARLES E. BESSEY,  
*for the Committee.*

At the suggestion of the Council, the section appointed special committee to make arrangements for the next meeting, 1895. The committee consists of the vice-president and secretary elect and the sectional committee of the 1894 meeting.

The nominating committee selected for vice-president 1895, Dr. J. C. Arthur, Prof. of Botany, Purdue University, Lafayette, Ind., and for secretary, Mr. B. T. Galloway, Chief of the Division of Vegetable Pathology, Washington, D. C. They were elected in general session, Tuesday.